

2



Headlines – Thu Oct 29th



FEWS Features

FEWS in the Olympic Bay

FEWS on Twitter

FEWS in Stormy Weather

FEWS Feature Outlook

Explorer- Attribute Filter Options

Waternet - Hydrobiologische gegevens (ontwikkelversie 22 Sep 2014) (Stand alone)

Bestand Extra Opties Help

Data Viewer
Meetnet
Hydrobiologie

5 : Data Viewer

WATERNET METNET HYDROBIOLOGIE

Aantal Diatomseen
Aantal Fytoplankton
Aantal Macro-evertebraten
Aantal Sieralgen
Aantal Vissen
Aantal Vissen
Aantalsvolume Fytoplankton
Aantsvolume Zooplankton
Bedecking
Bedecking Macrofoten

Analyse methode
Meet methode
Taxa
Voorkomen
Soort meting

6 : Logs

Huidige systeemtijd: 01-01-2013 00:00 MET

15:42:39 CET

Stand alone

137746 , 498002

0.0 MB/s

516 MB

Attribute Filter

Location Attributes

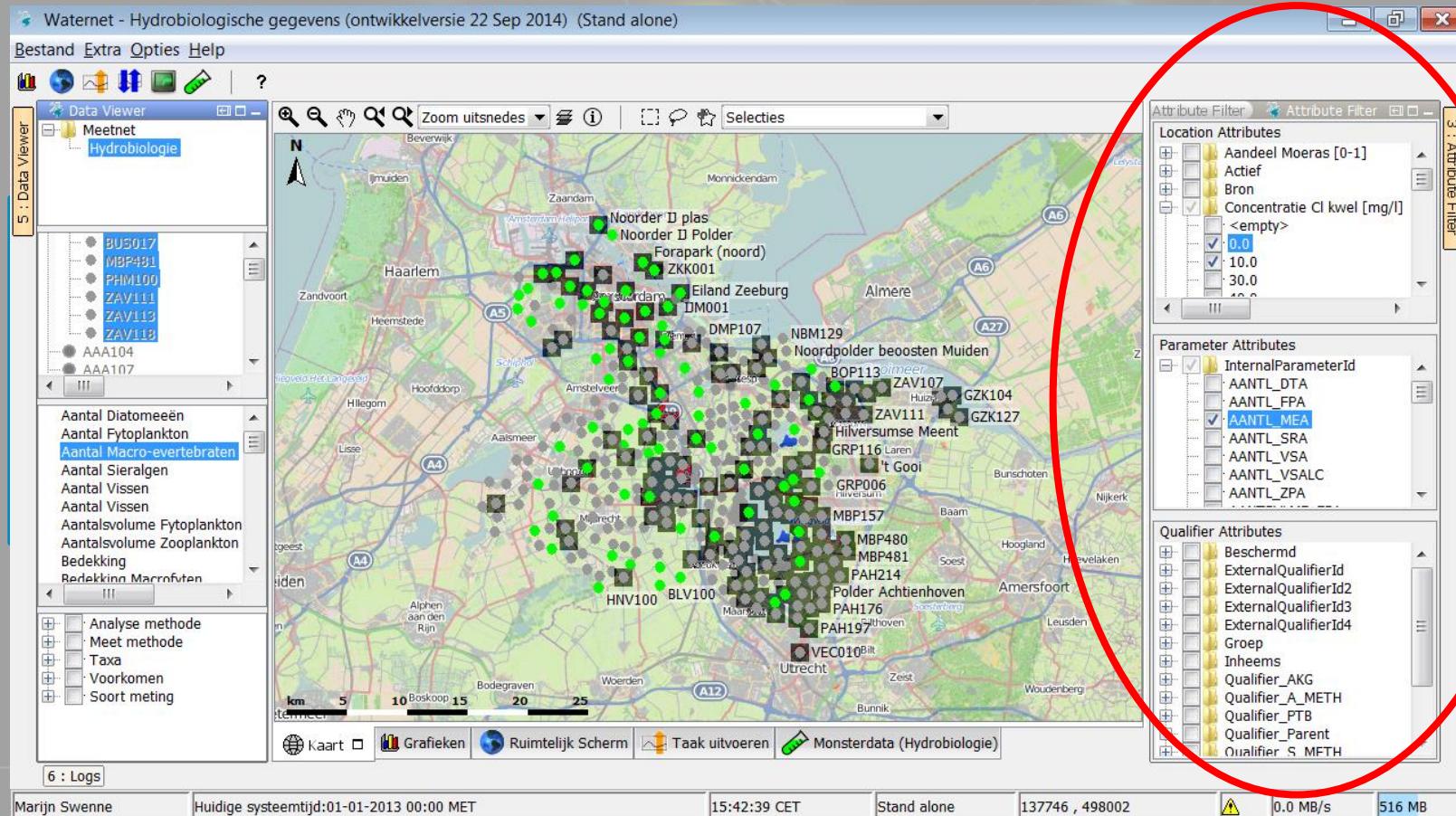
- Aandeel Moeras [0-1]
- Actief
- Bron
- Concentratie Cl kwel [mg/l]
 - <empty>
 - 0.0
 - 10.0
 - 30.0
 - 100.0

Parameter Attributes

- InternalParameterId
 - AANTL_DTA
 - AANTL_FPA
 - AANTL_MEA**
 - AANTL_SRA
 - AANTL_VSA
 - AANTL_VSALC
 - AANTL_ZPA

Qualifier Attributes

- Beschermd
- ExternalQualifierId
- ExternalQualifierId2
- ExternalQualifierId3
- ExternalQualifierId4
- Groep
- Inheems
- Qualifier_AKG
- Qualifier_A_METH
- Qualifier_PTB
- Qualifier_Parent
- Qualifier_S_MFTH

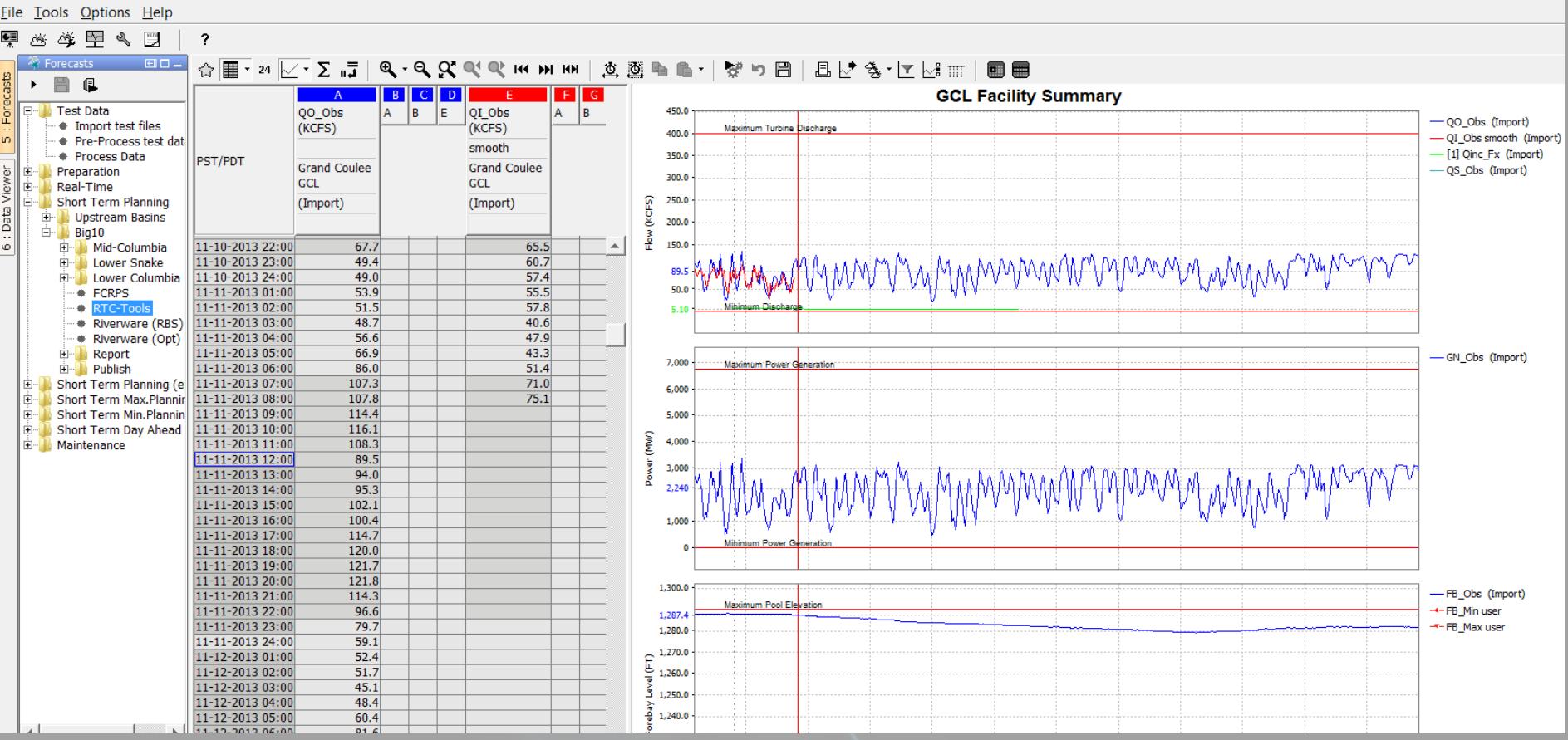


Validation - available for Qualifiers

```
<validationRuleSet validationRuleSetId="3" timeZone="GMT">
    <considerQualifiers>true</considerQualifiers>
    <extremeValues>
        <hardMax constantLimit="10"/>
        <hardMin constantLimit="0"/>
        <softMax constantLimit="5"/>
        <softMin constantLimit="1"/>
    </extremeValues>
    ...

```

Validation Status



Configuration...

- Use of location constraints to filter locationSet in General Adapter
- Run a workflow for complete locationSet using ‘looping’ principle

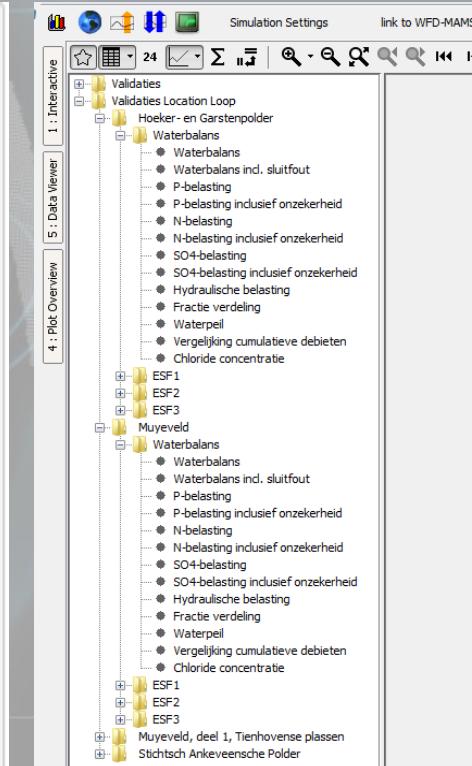
```
<activity>
    <runIndependent>true</runIndependent>
    <moduleId>ModuleInstanceId</moduleId>
    <loopLocationSetId>LocationSetId</loopLocationSetId>
</activity>
```

Configuration...

Loop in DisplayGroups to generate similar sets of graphs easily

```
<displayGroup name="Validaties Location Loop">
    <displayGroup name=" ">
        <locationLoop>
            <locationSetId>AanAfvoergebieden</locationSetId>
            <includeChildren>true</includeChildren>
            <locationRelationId>L_GEBIED</locationRelationId>
            <locationRelationId>L_ZICHT</locationRelationId>

<locationRelationId>meetnet_parent</locationRelationId>
        </locationLoop>
        <displayGroup name="Waterbalans">
            <display name="Waterbalans">
                <plotId>Waterbalans</plotId>
            </display>
            <display name="Waterbalans incl. sluitfout">
                <plotId>Waterbalans_sluitfout</plotId>
            </display>
        </displayGroup>
        ...
    </displayGroup>
</displayGroup>
```



Configuration...

- Configuration Template ‘tokens’ (key-value) pairs to replace e.g. moduleInstanceId, locationId, parameterId, timestepId

```
<timeSeriesSet>
    <moduleInstanceId>import</moduleInstanceId>
    <valueType>scalar</valueType>
    <parameterId>H.obs</parameterId>
    <locationId>H-2001</locationId>
    <timeSeriesType>$TIME_SERIES_TYPE$</timeSeriesType>
    <timestep unit="day"/>
    <relativeViewPeriod unit="day" start="$START_DAYS$" end="1"/>
    <readWriteMode>read only</readWriteMode>
</timeSeriesSet>
```


Enumerations...

- Enumerations:
 - TSD: table
 - SSD
 - Reports
 - Modifiers
 - Archive

Screenshot of a software interface showing the 'Modifiers' table and 'Modifier Properties' dialog for 'Spill Settings'.

Modifiers Table:

Mo...	Description	Summary	Locations	Start	End	Valid Time	User	Creation time
Spill...	Spill Settings	OVERRIDE_GATE_PCB	BOH-SP-01	--	--	--	King, ...	10-14-2014 1...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spill...	Spill Settings	SPILL_AV=AV_OPEN	BOH-SL-01	--	--	--	King, ...	10-14-2014 1...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spill...	Spill Settings	TargetSpill=4000.0	Boone Dam	--	--	--	King, ...	10-14-2014 1...	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Modifier Properties: Spill Settings

Description: Spill Settings

Targets: Spill Units BOOT1 | Spill Units BRDG1 | Spill Units CKDT1 | Spill Units CRKT1 | Spill Units DUGT1 | Spill Units NKJT1 | Spill Units FONN7 | Settings

location	SPILL_AV	OVERRIDE_GATE_POSITIONS
BOH-SL-01	AV_OPEN	1.5
BOH-SP-01	AV_OPEN	1.5
BOH-SP-02	AV_CLOSED	Shut
BOH-SP-03	AV_CLOSED	Shut
BOH-SP-04	AV_CLOSED	Shut
BOH-SP-05	AV_CLOSED	Shut

Override Gate Positions:

- Shut
- 1.5
- 2
- 2.5
- 3
- 3.5
- 4
- 5

Modifier Display – Several Improvements...

Tennessee Valley Authority (Stand alone)

File Tools Options Help

Forecasts Plot Overview 5 : Forecasts 6 : Data Viewer 7 : Forecaster help 9 : Buttons

Mod type Name Summary Locations Start End Valid Time User Creation time Active Delete Copy

Create mod Import Export Re-run

Modifier Properties: Special Operations Time Series Modifiers

Name: QT_Calderwood Dam
Start time: 02-23-2015 07:00:00 End time: 02-24-2015 06:00:00
Requested by: Corps
Work phone: 123 456 8910
Detail text field: update QT
Status: pending

Locations Operation Replace Value

Calderwood Dam

	CST/CDT	D	E	F
QT (CFS)	exact	QT (CFS)	QT (CFS)	
Calderwood Dam	CALT1	Calderwood Dam	Calderwood I	
RW_User_Input_	RW_User_Input_	RW_User_Input_	RW_User_Input_	
02-23-2015 13:00	4000	4000	4000	
02-23-2015 14:00	4000	4000	4000	
02-23-2015 15:00	4000	4000	4000	
02-23-2015 16:00	4000	4000	4000	
02-23-2015 17:00	4000	4000	4000	

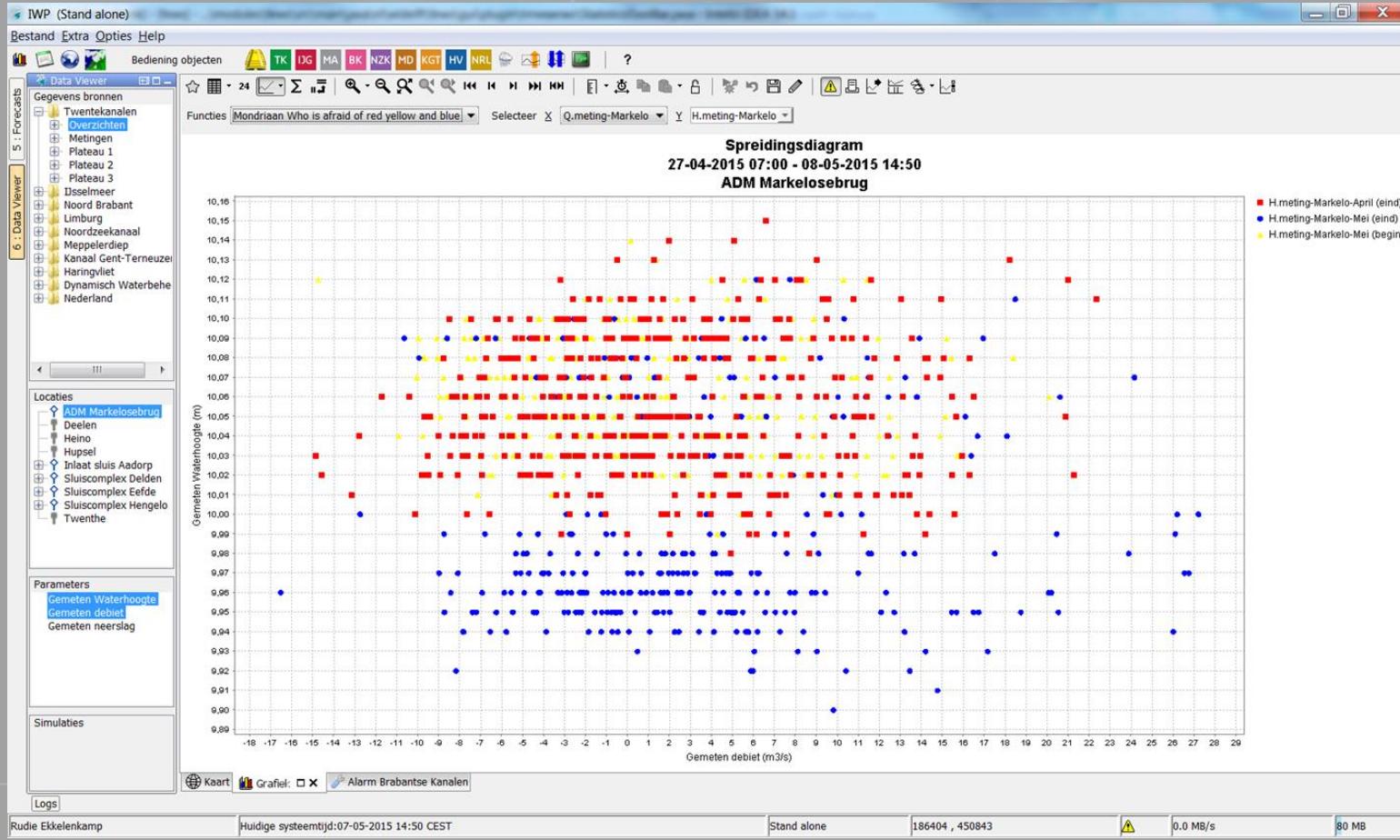
Calderwood Dam

Discharge (CFS)

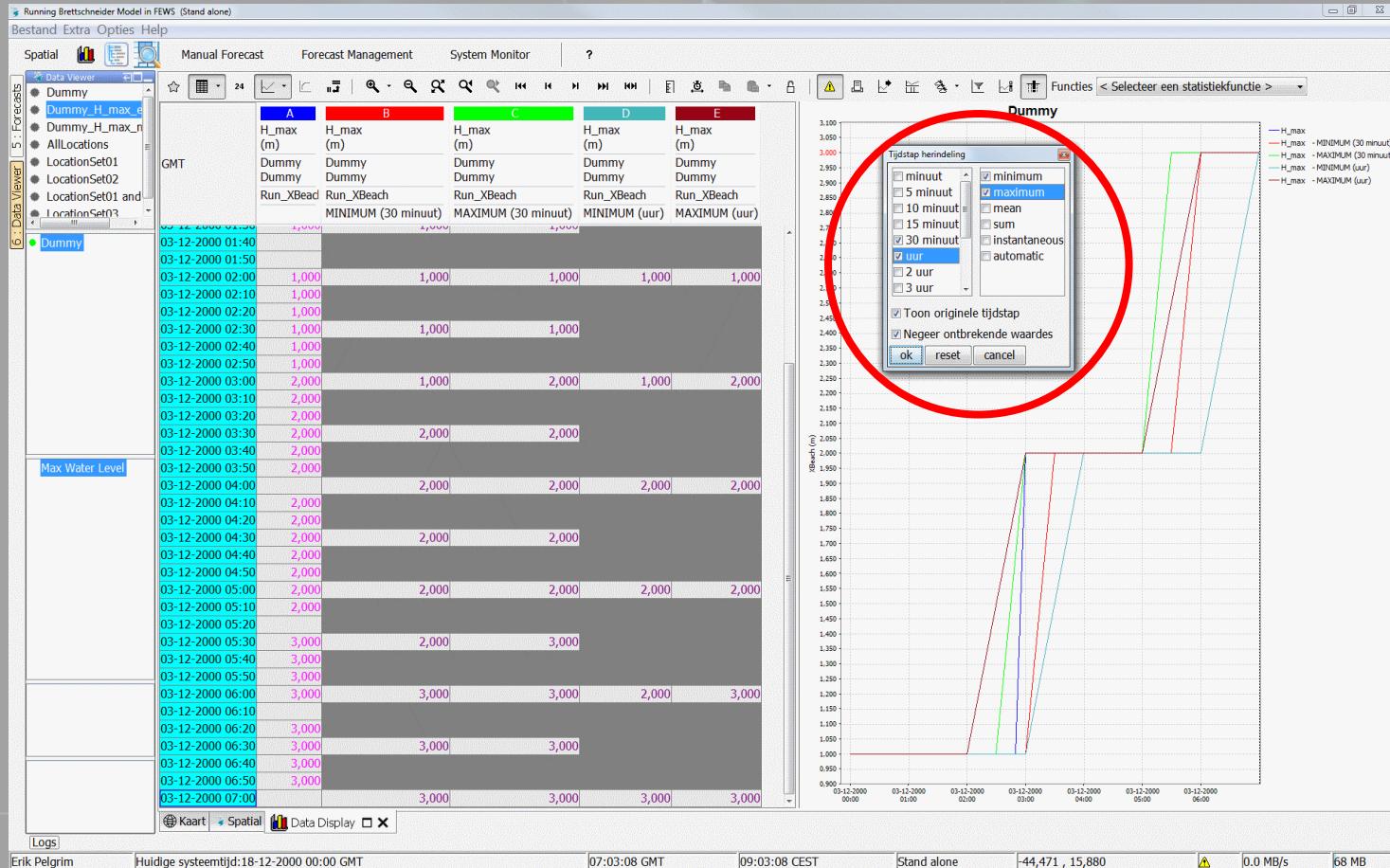
Legend:

- QT exact
- QT max
- QT min
- QT exact modified
- QT max modified
- QT min modified

TimeSeries Display – Scatter plot coloured periods

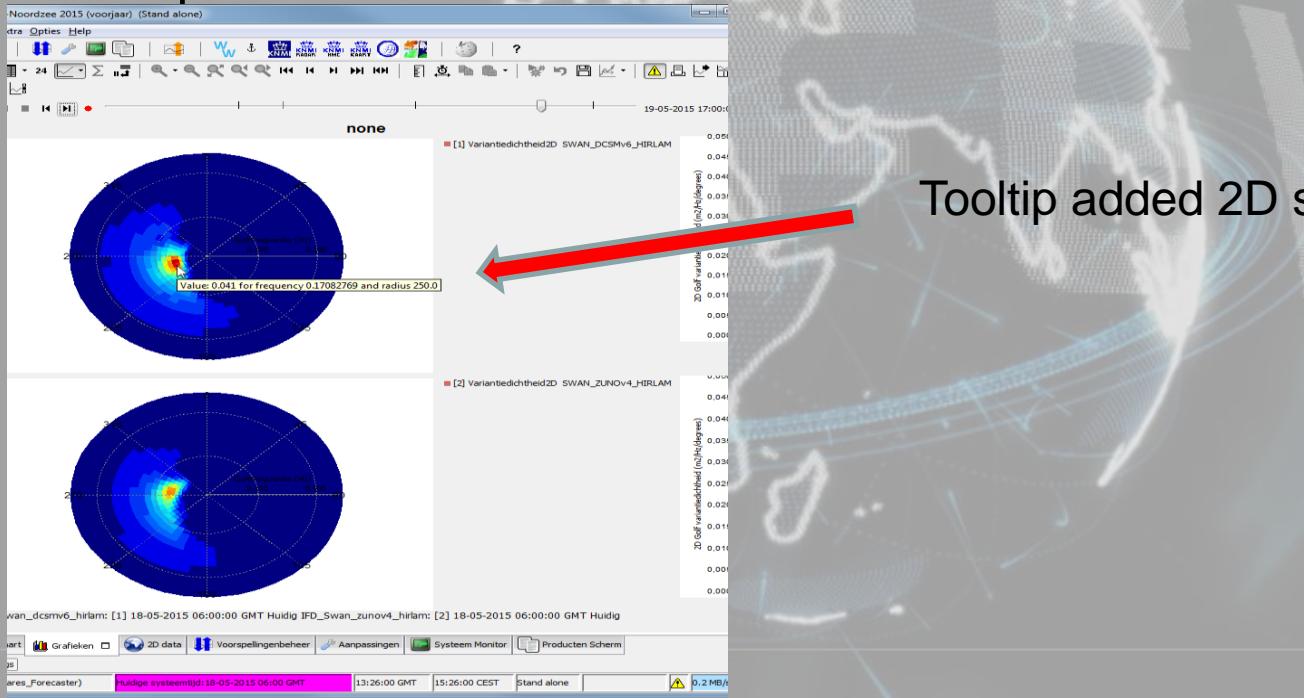


TimeSeries Display – aggregate timesteps / intervals



2D Spectra Data...

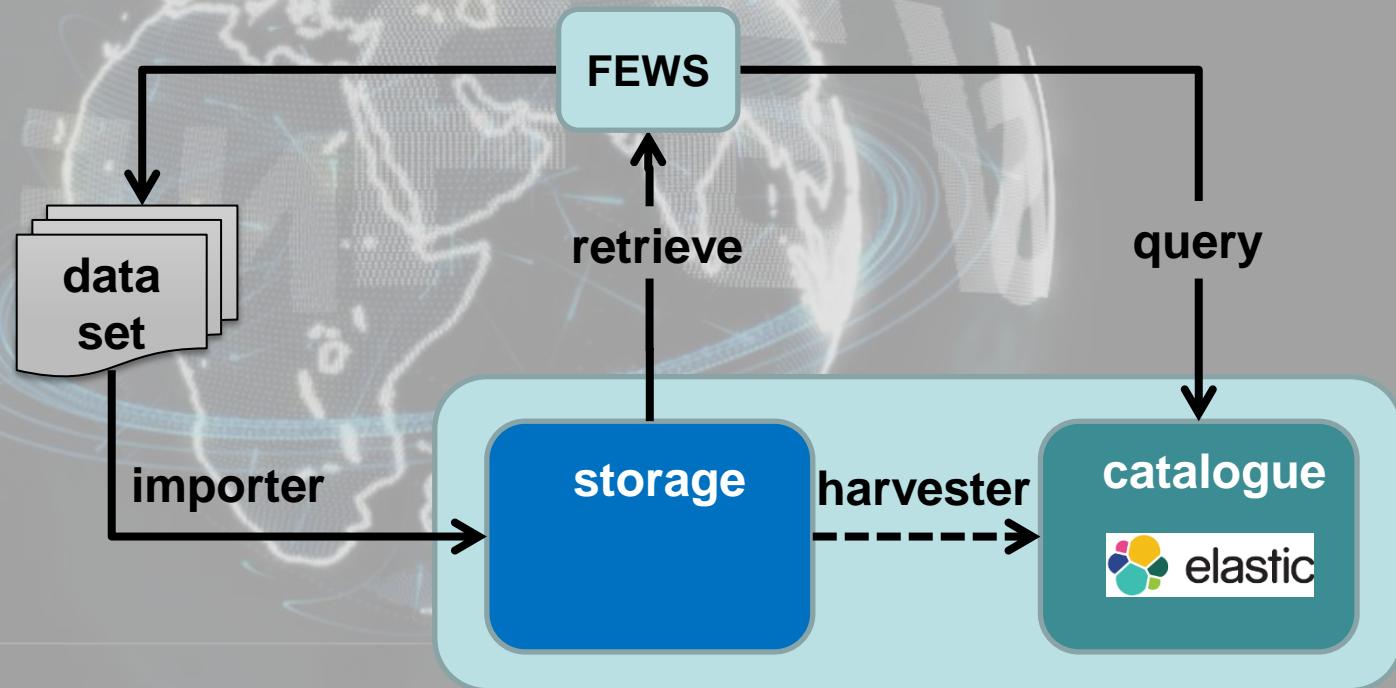
- Visualisation
- 2D spectra data can be used in transformations



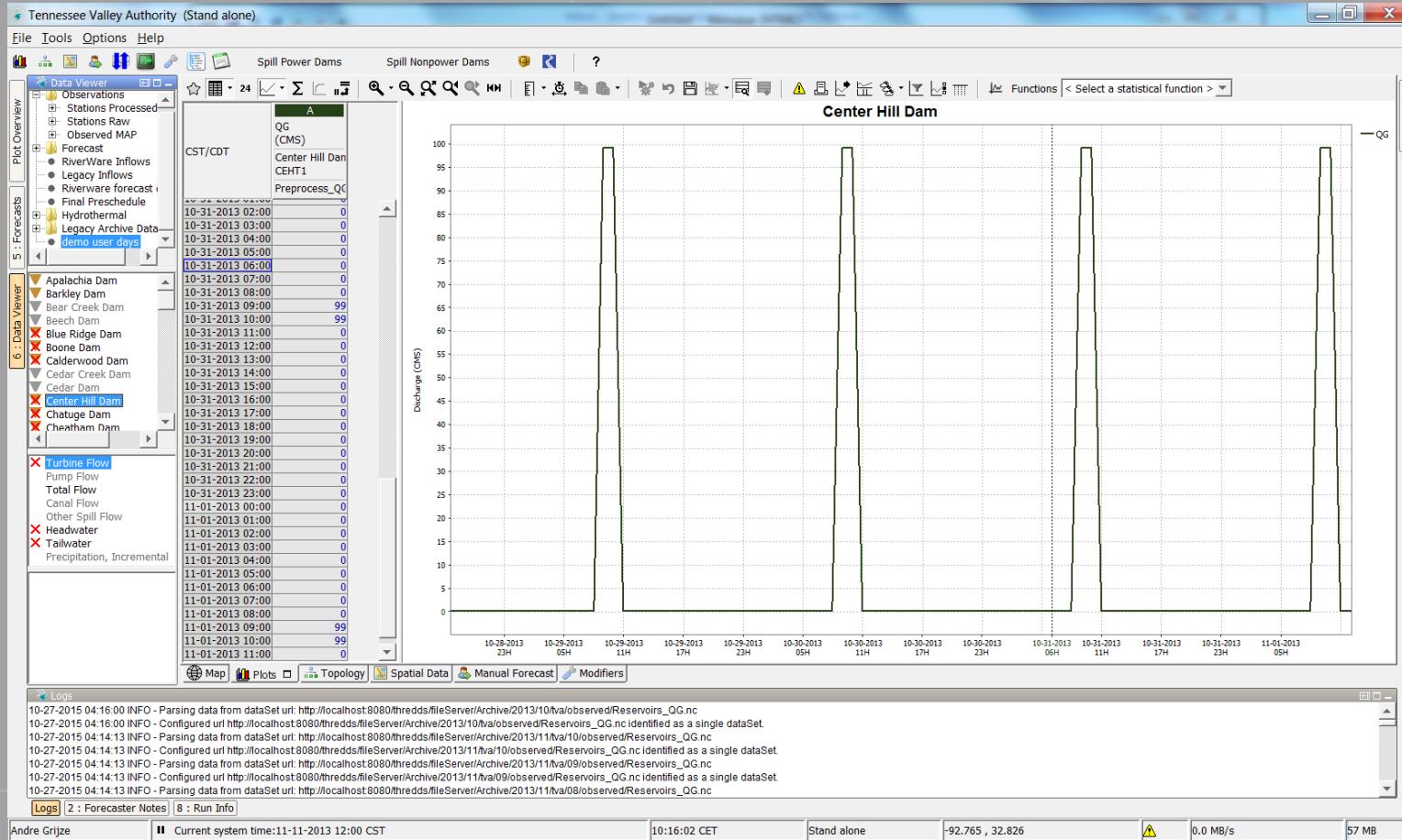
Tooltip added 2D spectra

Deltares Open Archive & Delft-FEWS

- Access and query the Forecast Broker Catalogue through Delft-FEWS Operator client

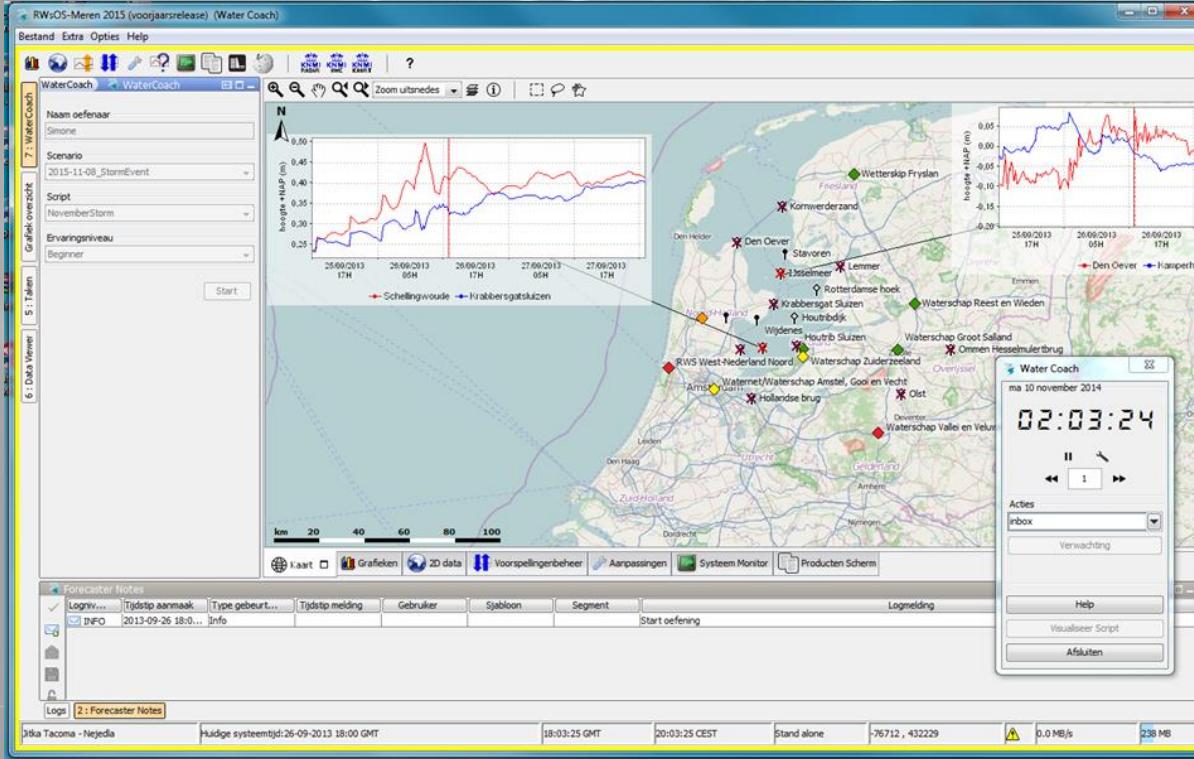


Deltires Open Archive & Delft-FEWS



Watercoach...

- Watercoach is now fully integrated as Delft-FEWS plugin



System Improvements

- Upgrade to Java 8 (JRE)
- ActiveMQ als standaard JMS engine
- Local backup copy of log.txt on OC (already on FSS)
- PostgreSQL 9.3, 9.4 Supported
- Checks on available database Indexes at Startup

System Improvements – Admin Interface

Main menu

- » System Status
- » Files
- » Forecast Tasks
- » Workflows and FSSs
 - » Workflows
 - » Workflow FSS Mappings
 - » Workflow FSS Mappings Matrix
 - » Forecast Shell Servers
 - » FSS Groups
 - » Event and Action Configuration
 - » Event Action Mappings
 - » User Administration
 - » System Control
 - » Database Analysis
- Running on MC00

Logged on as ADMIN
» Log Off

Main menu

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Logged on as ADMIN
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Workflows and FSSs

Edit Workflow FSS Mapping

Workflow ID VE_IJVDHydraZoetExportArchive_WS2050SO

FSS ID

- [all]
- [all simultaneous]
- [all staggered]
- [all one-at-a-time]
- [all most-recent-only]
- Windows1
- Test
- Mac2
- Mac1
- Linux2

Tasks will run on whichever FSS is available (or has the smallest queue).

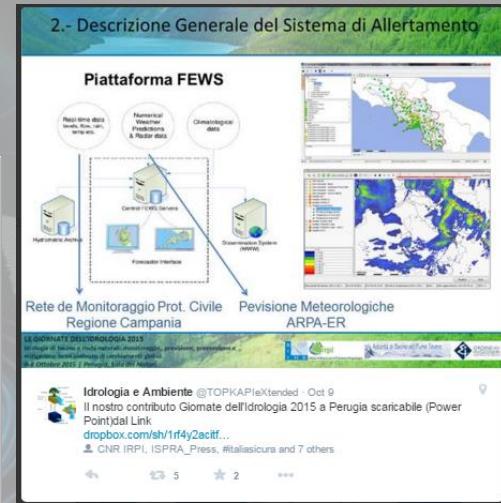
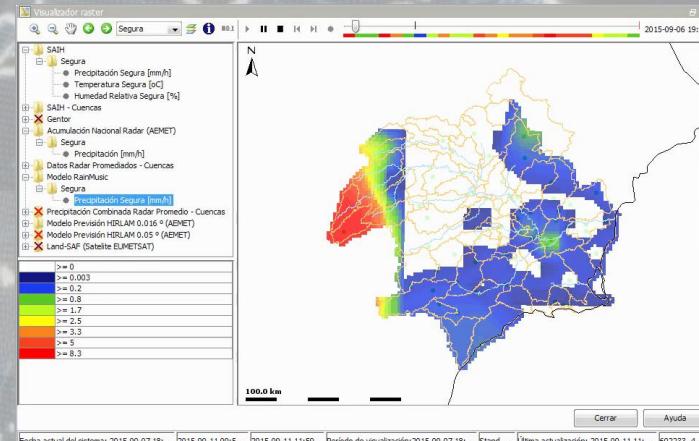
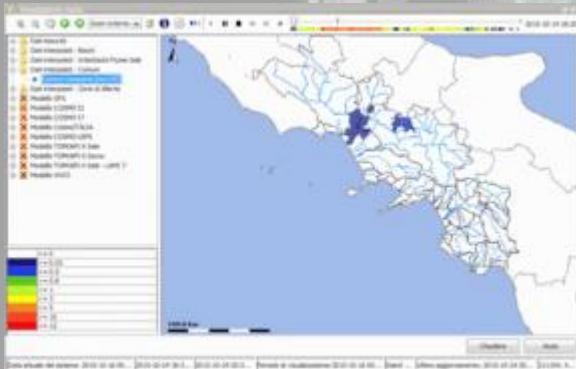
Submit Cancel

Map
Map all un-mapped workflows to FSS id "all"

VE_IJsselmeerHydraZoet_REF2015SO								
VE_IJsselmeerPPhydraZoet_REF2015SO	'all				X	X	X	X
VE_MaaHydraZoetExportArchive_RD2050SO	'all				X	X	X	X

Headline - FEWS on Twitter @DelftFEWS

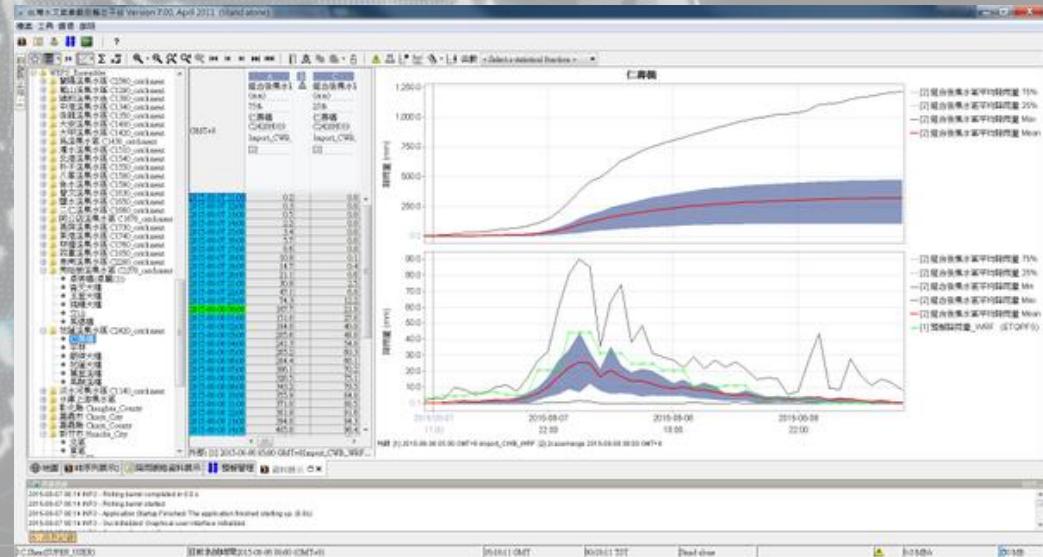
- Idrologia e Ambiente @TOPKAPleXtended



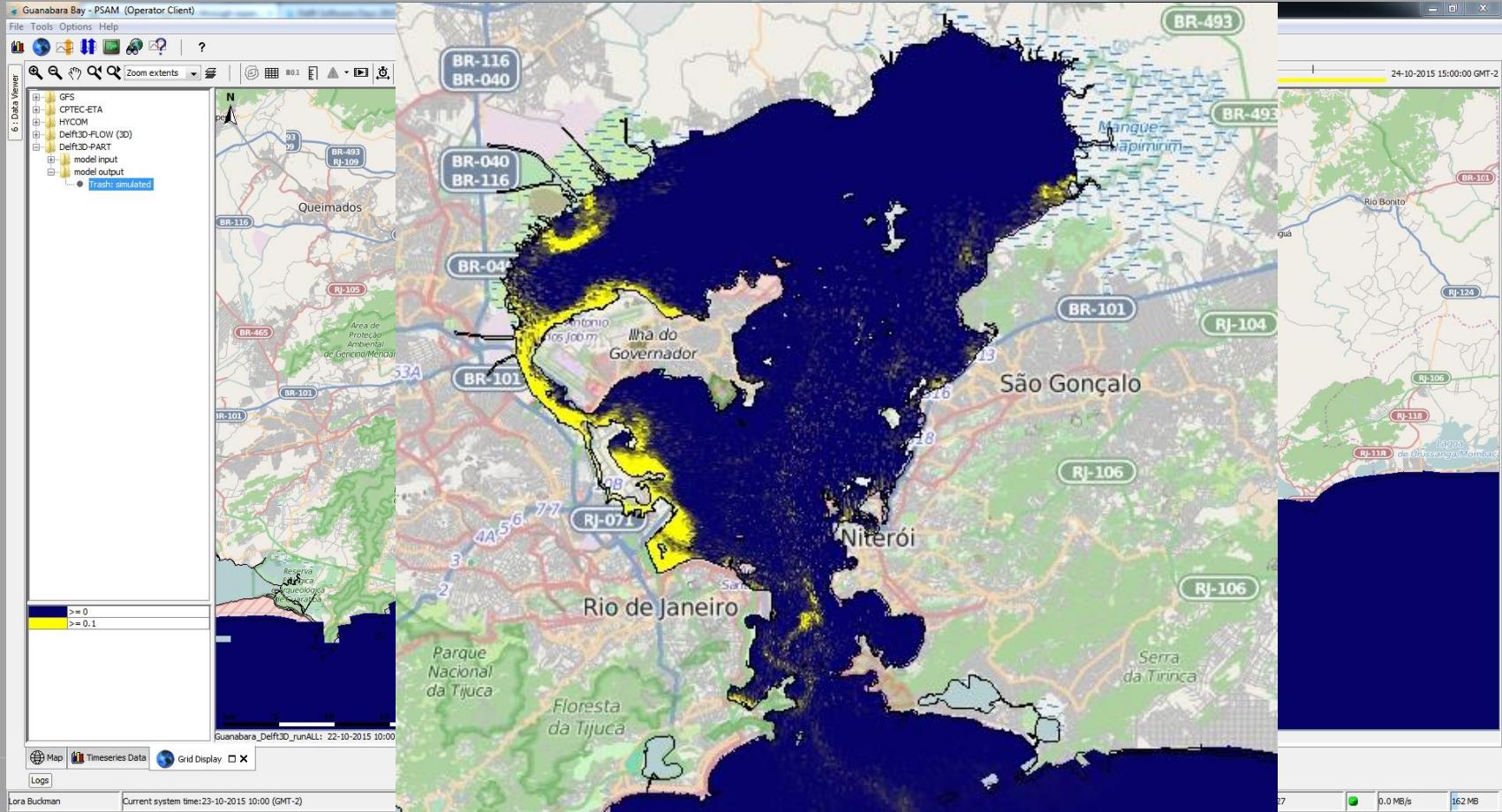
Headline - FEWS on Twitter @DelftFEWS

Others:

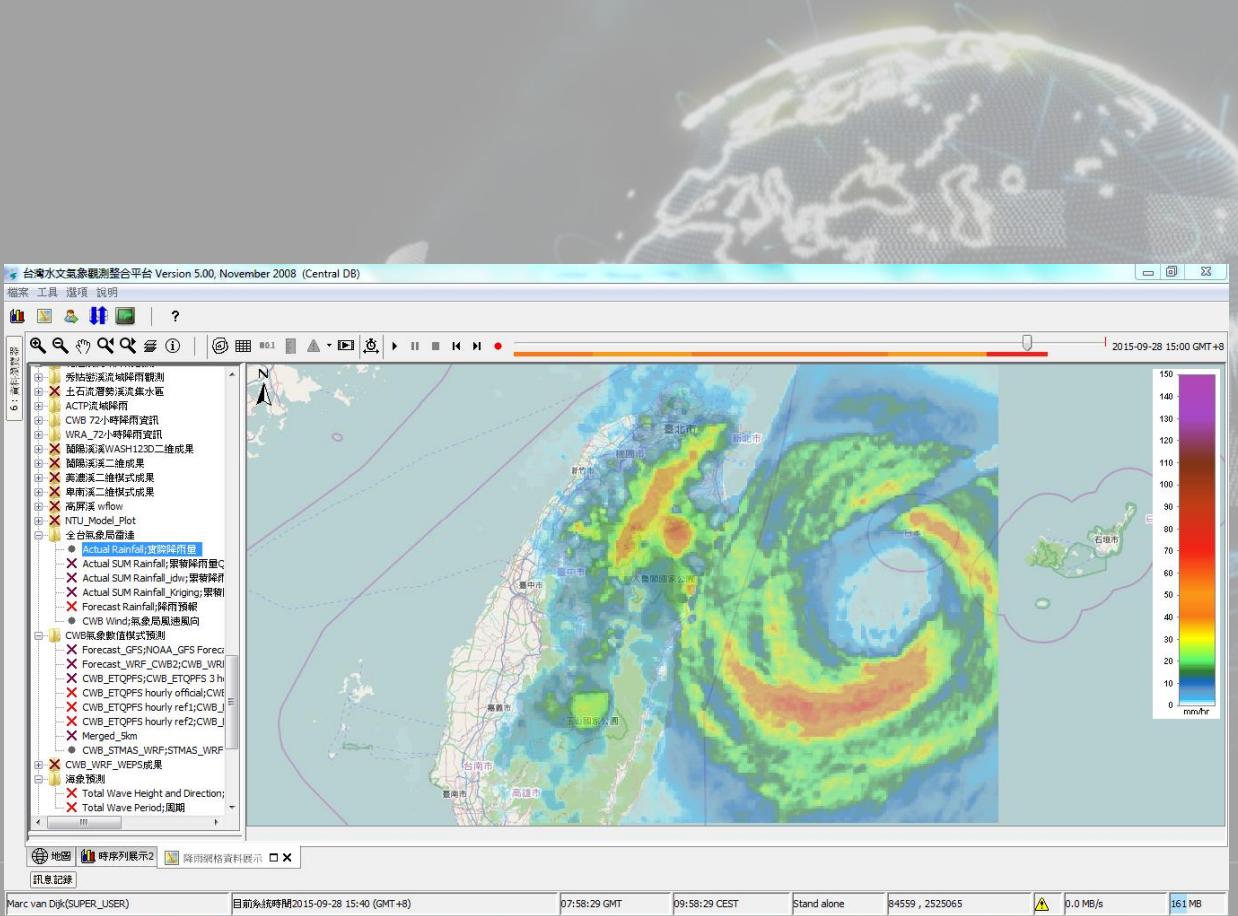
- Shen (Taiwan)
- Alex Minett (Deltares, down under)
- Justin Robinson (BoM)
- Melbourne Water (AUS)
- Michael Cranston (SEPA)
- ADASA (Spain)



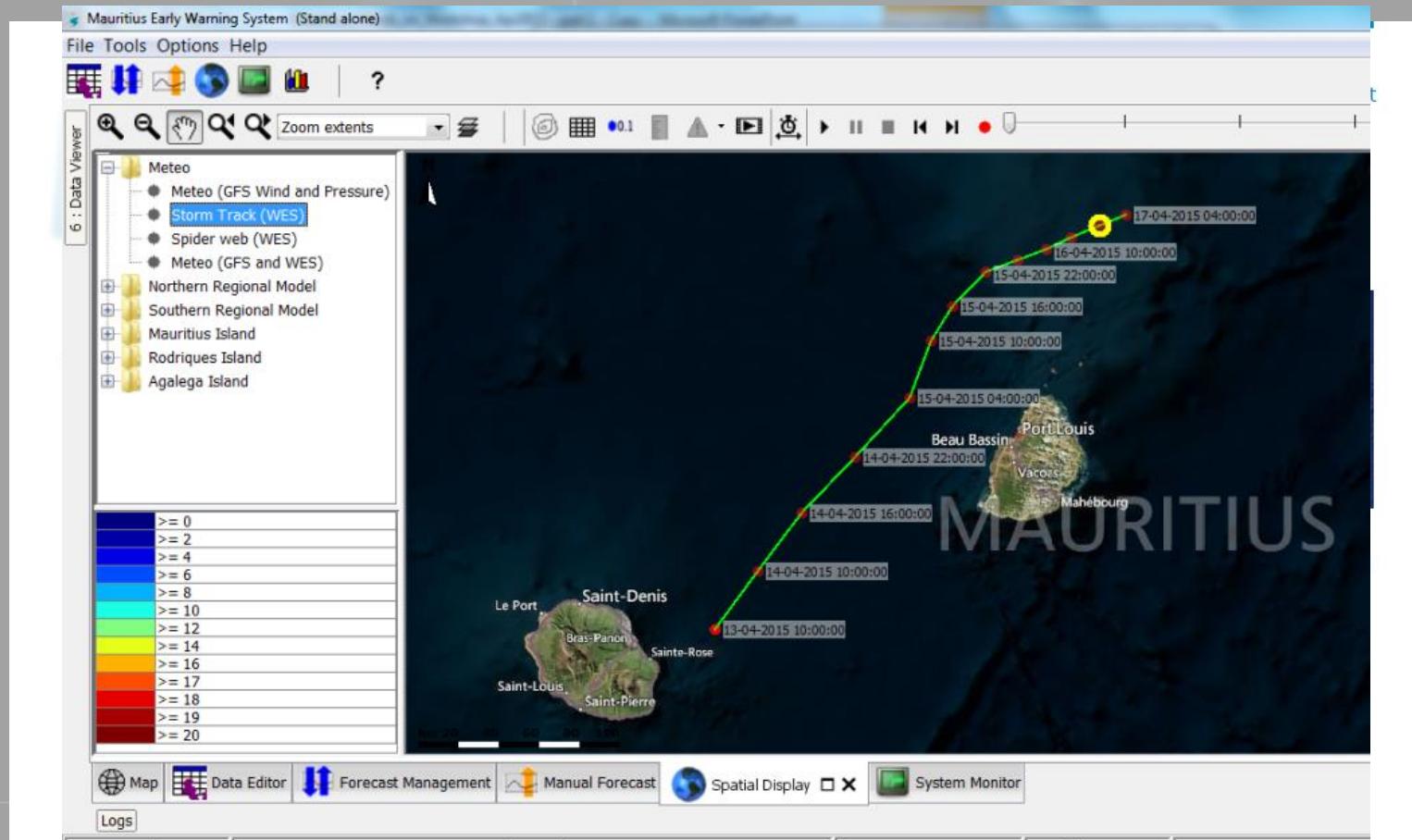
Headline - FEWS in the Olympic Bay



Headline - FEWS in Stormy Weather



Headline - FEWS in Stormy Weather



Personnel announcements

Who have left...



patricia



arjan



dave
juzer



skun
yan

Who are new...

Replacement in Australia...



alex

Current Delft-FEWS Support Team



Herman



Tom



Olav



Matthijs



Julius



Bas



Jan



Min

Headline - FEWS Feature Outlook

- FEWS 64b (really...)
- Open Archive: further improvements (Elastic Search)
- StatusIcons (Water Information Systems)
- Data-traceability
- ValidationStatus (extended GUI aspects)
- ActiveMQ to support HTTPS
- OpenAPI developments
- Leave large (gridded) datasets at the source...

Other News...

FEWS in airplanes

Royal FEWS attention...

Opening IDEAM...





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fews-pm@deltares.nl



**Thank you for your attention!
And see you again next year...**